

	Document ID	Kind Codes	Source	Issue Date	Page s	Title
1	US 6021408 A		USPAT	20000201	24	Methods for operating a log device
2	US 5999935 A		USPAT	19991207	20	Tail compression of a sparse log stream of a multisystem environment
3	US 5996054 A		USPAT	19991130	23	Efficient virtualized mapping space for log device data storage system
4	US 5966708 A		USPAT	19991012	15	Tail compression of a log stream using a scratch pad of logically deleted entries
5	US 5956735 A		USPAT	19990921	13	System of compressing the tail of a sparse log stream of a computer system
6	US 5920875 A		USPAT	19990706	14	Tail compression of a sparse log stream of a computer system
7	US 5737600 A		USPAT	19980407	61	Method and system for log management in a coupled data processing system
8	US 5317739 A		USPAT	19940531	49	Method and apparatus for coupling data processing systems

	Abstract	Current OR	Retrieval Classif	Current XRef	Inventor	U	S	C	P	1
1		707/8		707/201 ; 707/202 ; 707/206	Ledain, Joel E. , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2		707/101		707/202	Clark, Carl Edward , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3		711/203		709/321 ; 711/112 ; 711/206 ; 711/207 ; 711/6	Ledain, Joel E. , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4		707/101		707/204 ; 714/19	Clark, Carl Edward , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5		707/206		707/202 ; 714/6	Clark, Carl Edward , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6		707/206		707/202 ; 714/6	Clark, Carl Edward , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7		707/200		707/201 ; 707/202	Geiner, Robert Vaughn , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8		709/216			Elko, David A. , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Document ID	Kind Codes	Source	Issue Date	Pages	Title
1	US 6192408 B1		USPAT	20010220	50	Network file server sharing local caches of file access information in data processors assigned to respective file systems
2	US 5948062 A		USPAT	19990907	37	Network file server using a cached disk array storing a network file directory including file locking information and data mover computers each having file system software for shared read-write file access
3	US 5944789 A		USPAT	19990831	36	Network file server maintaining local caches of file directory information in data mover computers
4	US 5893140 A		USPAT	19990406	36	File server having a file system cache and protocol for truly safe asynchronous writes
5	US 5226039 A		USPAT	19930706	85	Packet routing switch
6	US 4583165 A		USPAT	19860415	25	Apparatus and method for controlling storage access in a multilevel storage system

	Abstract	Current OR	Retrieval Classif	Current XRef	Inventor	U	S	C	P	1
1		709/229		709/217 ; 709/226	Vahalia, Uresh K. , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2		709/219		707/10 ; 707/205 ; 709/202 ; 709/203 ; 709/220 ; 709/229 ; 711/100 ; 711/111	Tzelnic, Percy , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3		709/214		707/7 ; 707/8 ; 711/118 ; 711/145	Tzelnic, Percy , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4		711/118		706/908	Vahalia, Uresh K , et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5		370/405			Frank, Steven J. , et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6		711/213			Rosenfeld, Philip L.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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1	BRS	L1	18	("5920875" or "5956735" or "5966708" or "5996054" or "5999935" or "6021408" or "5317739" or "5737600").pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:09		
2	BRS	L2	459	((Java adj package) adj (service\$1 or manag\$6)) or JPS! or JPM! or (class! adj locat\$3 adj service\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:33		
3	BRS	L3	4	2 and ((multiple or multi!) near (element\$1 or class\$2))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:48		
4	BRS	L4	0	3 and class\$2 and (classpath\$1 or class\$1path\$1 or (class! adj path\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:12		
5	BRS	L5	0	2 and class\$2 and (classpath\$1 or class\$1path\$1 or (class! adj path\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:12		
6	BRS	L6	0	2 and class\$2 and (classpath\$1 or class\$1path\$1 or (class! adj path\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:35		
7	BRS	L7	73	class\$2 and (classpath\$1 or class\$1path\$1 or (class! adj path\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:31		
8	BRS	L9	9	2 and (707/\$.ccls. or 711/\$.ccls. or 709/\$.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:31		
9	BRS	L10	0	((Java adj package) adj (service\$1 or manag\$6)) or (class! adj locat\$3 adj service\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:34		
10	BRS	L11	147	((Java adj package) or (class! adj locat\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:34		
11	BRS	L12	57	11 and (707/\$.ccls. or 711/\$.ccls. or 709/\$.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:35		
12	BRS	L13	2	12 and class\$2 and (classpath\$1 or class\$1path\$1 or (class! adj path\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:43		
13	BRS	L8	28	7 and (707/\$.ccls. or 711/\$.ccls. or 709/\$.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:40		
14	BRS	L14	17	7 and (707/\$.ccls. or 711/\$.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:40		

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15	BRS	L15	4	14 and (search\$3 same request\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:43		
16	BRS	L16	74	(classpath\$1 or class\$1path\$1 or (class! adj path\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:47		
17	BRS	L17	8	16 and (search\$3 same request\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:54		
18	BRS	L18	20	16 and (search\$3 and request\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:54		
19	BRS	L19	5978	(classpath\$1 or class\$1path\$1 or (class! adj path\$1) or director\$3) and class\$2	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:47		
20	BRS	L20	898	19 and (search\$3 same request\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:48		
21	BRS	L21	41	20 and ((multiple or multi!) near (element\$1 or class\$2))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:53		
22	BRS	L22	22	21 and ((memor\$3 or buffer\$1 or cach\$3) near2 information!)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:51		
23	BRS	L23	0	22 and Java! near class\$2	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:50		
24	BRS	L24	11	20 and Java! near class\$2	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:52		
25	BRS	L25	0	24 and ((multiple or multi!) near (element\$1 or class\$2))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:50		
26	BRS	L26	4	24 and ((memor\$3 or buffer\$1 or cach\$3) near2 information!)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:56		
27	BRS	L28	1	27 and ((multiple or multi!) near (element\$1 or class\$2))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:53		
28	BRS	L29	0	28 and (search\$3 same request\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:56		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
29	BRS	L30	1	28 and (search\$3 and request\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:54		
30	BRS	L27	19	19 and (Java! near class\$2) same (Class\$1path\$1 or classpath\$1 or (class! adj path\$1) or director\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:57		
31	BRS	L31	2	27 and (search\$3 same request\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:56		
32	BRS	L32	0	31 and ((memor\$3 or buffer\$1 or cach\$3) near2 information!)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:58		
33	BRS	L33	3	27 and ((memor\$3 or buffer\$1 or cach\$3) near2 information!)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:56		
34	BRS	L34	14	(Java! near class\$2) and (Class\$1path\$1 or classpath\$1 or (class! adj path\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:58		
35	BRS	L35	1	34 and ((memor\$3 or buffer\$1 or cach\$3) near information!)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:58		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
1	BRS	L1	18	("5920875" or "5956735" or "5966708" or "5996054" or "5999935" or "6021408" or "5317739" or "5737600").pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:09		
2	BRS	L2	459	((Java adj package) adj (service\$1 or manag\$6)) or JPS! or JPM! or (class! adj locat\$3 adj service\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:33		
3	BRS	L3	4	2 and ((multiple or multi!) near (element\$1 or class\$2))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:48		
4	BRS	L4	0	3 and class\$2 and (classpath\$1 or class\$1path\$1 or (class! adj path\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:12		
5	BRS	L5	0	2 and class\$2 and (classpath\$1 or class\$1path\$1 or (class! adj path\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:12		
6	BRS	L6	0	2 and class\$2 and (classpath\$1 or class\$1path\$1 or (class! adj path\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:35		
7	BRS	L7	73	class\$2 and (classpath\$1 or class\$1path\$1 or (class! adj path\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:31		
8	BRS	L9	9	2 and (707/\$.ccls. or 711/\$.ccls. or 709/\$.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:31		
9	BRS	L10	0	((Java adj package) adj (service\$1 or manag\$6)) or (class! adj locat\$3 adj service\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:34		
10	BRS	L11	147	((Java adj package) or (class! adj locat\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:34		
11	BRS	L12	57	11 and (707/\$.ccls. or 711/\$.ccls. or 709/\$.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:35		
12	BRS	L13	2	12 and class\$2 and (classpath\$1 or class\$1path\$1 or (class! adj path\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:43		
13	BRS	L8	28	7 and (707/\$.ccls. or 711/\$.ccls. or 709/\$.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:40		
14	BRS	L14	17	7 and (707/\$.ccls. or 711/\$.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 13:40		

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1	US 6192408 B1		USPAT	20010220	50	Network file server sharing local caches of file access information in data processors assigned to respective file systems
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6	US 4583165 A		USPAT	19860415	25	Apparatus and method for controlling storage access in a multilevel storage system

	Abstract	Current OR	Retrieval Classif	Current XRef	Inventor	U	S	C	P	1
		709/229		709/217 ; 709/226	Vahalia, Uresh K. , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2		709/219		707/10 ; 707/205 ; 709/202 ; 709/203 ; 709/220 ; 709/229 ; 711/100 ; 711/111	Tzelnic, Percy , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3		709/214		707/7 ; 707/8 ; 711/118 ; 711/145	Tzelnic, Percy , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4		711/118		706/908	Vahalia, Uresh K , et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5		370/405			Frank, Steven J. , et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6		711/213			Rosenfeld, Philip L.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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1	BRS	L1	0	((Java adj package adj service\$1) or (class! adj locat\$3 adj service\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:22		
2	BRS	L2	25	class\$2 and (classpath\$1 or class\$1path\$1 or (class! adj path\$1)) and Java!	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:36		
3	BRS	L3	0	2 and (multiple or multi!) near (element\$1 or class\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:48		
4	BRS	L4	2	2 and Java and zip\$6 near file	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:25		
5	BRS	L6	1	2 and (Java near class\$2) and (zip\$6 near file\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:26		
6	BRS	L5	1	4 and (Java near class\$2) and (zip\$6 near file\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:34		
7	BRS	L7	1	2 and ((cach\$3 or buffer\$3 or memor\$3) near information)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:32		
8	BRS	L8	71	(multiple or multi!) near (element\$1 or class\$2) and java!	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:33		
9	BRS	L9	9	2 and ((cach\$3 or buffer\$3 or memor\$3 or stor\$4 or process\$2) near information)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:34		
10	BRS	L10	0	9 and (Java near class\$2) and (zip\$6 near file\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:33		
11	BRS	L11	0	5 and (multiple or multi!) near (element\$1 or class\$2) and java!	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:42		
12	BRS	L12	1	2 and (Java near class\$2) and (zip\$6 near file\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:36		
13	BRS	L13	0	12 and ((cach\$3 or buffer\$3 or memor\$3 or stor\$4 or process\$2) near information)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:38		
14	BRS	L14	44	8 and ((cach\$3 or buffer\$3 or memor\$3 or stor\$4 or process\$2) near information)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:35		

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15	BRS	L15	0	14 and (Java near class\$2) and (zip\$6 near file\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:36		
16	BRS	L16	0	14 and (classpath\$1 or class\$1path\$1 or (class! adj path\$1)) and Java!	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:36		
17	BRS	L17	27	14 and (classpath\$1 or class\$1path\$1 or (class! adj path\$1) or director\$3) and Java!	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:40		
18	BRS	L18	2	17 and (search\$3 same request\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:39		
19	BRS	L19	0	12 and ((cach\$3 or buffer\$3 or memor\$3 or storage\$1 or processor\$1) near information)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:39		
20	BRS	L20	28	8 and ((cach\$3 or buffer\$3 or memor\$3 or storage\$1 or processor\$1) near information)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:42		
21	BRS	L21	3	20 and (search\$3 same request\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:44		
22	BRS	L22	2	21 and (classpath\$1 or class\$1path\$1 or (class! adj path\$1) or director\$3) and Java!	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:41		
23	BRS	L23	70	(classpath\$1 or class\$1path\$1 or (class! adj path\$1) or director\$3) and (Java! near class\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:41		
24	BRS	L24	19	(classpath\$1 or class\$1path\$1 or (class! adj path\$1) or director\$3) same (Java! near class\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:44		
25	BRS	L26	0	25 and (multiple or multi!) near (element\$1 or class\$2) and java!	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:42		
26	BRS	L25	4	24 and ((cach\$3 or buffer\$3 or memor\$3 or storage\$1 or processor\$1) near information)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:43		
27	BRS	L28	0	27 and (classpath\$1 or class\$1path\$1 or (class! adj path\$1) or director\$3) same (Java! near class\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:47		
28	BRS	L27	28	8 and ((cach\$3 or buffer\$3 or memor\$3 or storage\$1 or processor\$1) near information)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:56		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
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30	BRS	L30	26	27 and (search\$3 and request\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:46		
31	BRS	L31	3929	cach\$3 near2 information!	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:47		
32	BRS	L32	1052	31 and (classpath\$1 or class\$1path\$1 or (class! adj path\$1) or director\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:53		
33	BRS	L33	343	32 and class\$2	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:48		
34	BRS	L34	19	33 and (multiple or multi!) near (element\$1 or class\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:48		
35	BRS	L35	6	34 and (search\$3 same request\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:50		
36	BRS	L36	0	locat\$5 near class\$2o	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:51		
37	BRS	L37	518	locat\$5 near class\$2	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:51		
38	BRS	L38	99	37 and (classpath\$1 or class\$1path\$1 or (class! adj path\$1) or director\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:53		
39	BRS	L39	34	38 and (search\$3 same request\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:53		
40	BRS	L41	7	40 and (completion! near code\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:54		
41	BRS	L40	12	39 and ((cach\$3 or buffer\$3 or memor\$3 or storage\$1 or processor\$1) near information)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:55		
42	BRS	L42	12	40 and class\$2	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:55		

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43	BRS	L43	12	42 and ((cach\$3 or buffer\$3 or memor\$3 or storage\$1 or processor\$1) near information)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:58		
44	BRS	L44	8	43 and java	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 14:58		
45	BRS	L45	14	(java! adj class\$2) and (classpath\$1 or class\$1path\$1 or (class! adj path\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/06/19 15:00		

	Document ID	Kind Codes	Source	Issue Date	Pages	Title
1	US 6243856 B1		USPAT	20010605	38	System and method for encoding a scene graph
2	US 6237135 B1		USPAT	20010522	36	Development system with visual design tools for creating and maintaining Java Beans components
3	US 6226788 B1		USPAT	20010501	68	Extensible network management system
4	US 6216152 B1		USPAT	20010410	17	Method and apparatus for providing plug in media decoders
5	US 6205465 B1		USPAT	20010320	67	Component extensible parallel execution of multiple threads assembled from program components specified with partial inter-component sequence
6	US 6163797 A		USPAT	20001219	26	information Application dispatcher for seamless, server application support for network terminals and non-network terminals
7	US 6085120 A		USPAT	20000704	14	Data system processing and method for creating application extension
8	US 6085198 A		USPAT	20000704	33	Integrated three-tier application framework with automated class and table generation
9	US 6061743 A		USPAT	20000509	13	Method and apparatus for aggregating disparate namespaces
10	US 5987256 A		USPAT	19991116	23	System and process for object rendering on thin client platforms
11	US 5987608 A		USPAT	19991116	15	Java security mechanism

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1		717/1		345/473	Meyer, Thomas W. , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2		717/1		717/2	Timbol, Michael	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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7		700/90		713/100	Schwerdtfe ger, Richard Scott , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8				707/101 ; 707/102 ; 707/203	Skinner, Brian , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9		709/328		707/100 ; 707/104	Thatcher, Jim Ernest , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10		717/7			Wu, Bo , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11		713/200			Roskind, James A.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Document ID	Kind Codes	Source	Issue Date	Page s	Title
12	US 5923878 A		USPAT	19990713	24	System, method and apparatus of directly executing an architecture-independent binary program
13	US 5864676 A		USPAT	19990126	7	URL login
14	US 5828840 A		USPAT	19981027	30	Server for starting client application on client if client is network terminal and initiating client application on server if client is non network terminal

	Abstract	Current OR	Retrieval Classif	Current XRef	Inventor	U	S	C	P	1
12		717/4		707/103 ; 717/5 ; 717/6	Marsland, Timothy	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13		709/229		709/217	Beer, John C. , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14		709/203			Cowan, Richard , et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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1. ☐ 9/3,K/1**02370460 Supplier Number: 59278621 (Use Format 7 Or 9 For FULL TEXT)**

Late binding - late danger; If profanity is a language that all programmers share, a prim Java cause can be the dangers of late binding. Lou Grinzo looks at Sun's Product Version Specification and presents two strategies to ensure that all is present and correct.(Technology Information)(Column)

EXE , 47(4)

Feb 1 , 2000

Document Type: Column

ISSN: 0268-6872

Language: English Record Type: Fulltext**Word Count: 2212 Line Count: 00174**

The sample code I've provided a pair of sample programs to demonstrate these techniques and give you a basis for experimenting. The file `bareclasses.zip` includes a main program (`start.java`) that calls methods in three other classes (`class0`, `class1`, and `class2`) so they can display some text. The interesting ...placing all the files into a single directory, or you can install `class0.class` into your classes directory. The other sample program is in `jar.zip`, and it's a bit more involved thanks to its use of a package, `jar file` and `manifest` to manage its classes. To use this...
...the fussy side. For example, to store several classes into a package named `Bedrock`, in the file `Bedrock.jar`, you can't simply compile the `*java*` files `*class*` files and store them into a jar file from anywhere. You must place class files in a directory called `Bedrock`, make the parent directory...creating a sibling directory to these two that is named `'classes'` (eg `c:\jdk1.2.2\jre\classes`), you can use it to hold bare `*class*` files that will automatically be found by your running programs. Similarly, you can add a `jar file` to the directory `c:\jdk1.2.2\jre\lib\ext`, and it will be `*searched*` for packages and classes automatically. Second, you can also use the `classes` directory with packages. If you place several classes into a package named `Bedrock`, you can then place the bare `*class*` files into a subdirectory with same name beneath `classes` (eg `c:\jdk1.2.2\jre\classes\Bedrock`). These classes will be found, but obviously...

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2. ☐ 9/3,K/2**02260609 Supplier Number: 53578796 (Use Format 7 Or 9 For FULL TEXT)****How Do I Store a Java App in a Self-Executing Encrypted File?(Technology Tutorial)**

Angel, Dave; Wilson, Andy

Dr. Dobb's Journal , 24 , 2 , 115(1)

Feb , 1999

ISSN: 1044-789X

Language: English **Record Type:** Fulltext; Abstract
Word Count: 2672 **Line Count:** 00224

Abstract: *Java* applications require multiple *class* files, but these files can experience installation problems. These problems can include classpath issues and *class* packaging incompatibilities. *Java* multiple *class* files also make it too easy for users to decompile and an application's classes. *Zip* Fries offer a solution to these problems, but *zip* files often require modifications to the classpath and the files are not encrypted. A custom encryption and packaging system that is implemented as a self-extracting, Java-executable file offers a solution to these problems. The default *Java* *class* loader will look to the classpath to locate a class file, but class can override the default loader and control the location and loading...

Text:

Every nontrivial *Java* application requires multiple *class* files, but dealing with them can be a pain. One problem with multiple class files, for instance, involves installation. Installation of any software, not just...
 ...registry keys and sometimes additional environment variables. Java applications are especially prone to classpath issues, and sometimes even class packaging incompatibilities, such as those between *zip* and cab files. A second problem with multiple *class* files is that *Java* makes it all too easy for users to decompile and reuse an application's classes. Each class loader takes some measure of time and money. However, typical Java packaging methodologies allow others to steal your work.

One way to get around both problems is to create *zip* Fries. However, *zip* files often require users to modify the classpath. Secondly, *zip* files are not encrypted, so users can unzip Fries and decompile or use your class files.

The only real solution to both problems, therefore, is to build a custom encryption and packaging system and implement it as a self-extracting, Java-executable file. Even though the default *Java* *class* loader looks to the classpath to find a given class file, a class can override the default loader and control how and where additional classes...

...The codepacker executable takes a list of all the user defined classes, combines them with the container, class into a single, self-extracting executable *class* file.

For example, "*Java* codepacker container, *class* username.*class* depend1.class depend2.class main.class" would produce a single class file called "username.class." This class file (username.class), when executed, would load and...

...user's main class, which is the last one listed (main.class). Naturally, username.class would also load the dependent classes, shown here as depend1.class and depend2.class. A *Java* *class* file is a specific format designed for the portability of object code from one implementation of a virtual machine (VM) to another.

A class file...

...change the string that the index points to or change the index to point to another string.

There are several predefined attributes that describe the *Java* *class*. For example, one attribute is Code, which contains the byte code and a few fields. The VM will only process attributes that it recognizes...

...such a way that the main class is distinct from supporting classes.

Invoking the main class is rather trivial. The application must first query the *class* via the *java*.lang.*Class*.getDeclaredMethod() method to the main method. This method takes two parameters, a string representing the method, and an array of parameters. To find the...method for the application use an encryption method.

The application is broken down into four phases: packaging, encryption/decryption, loading, and execution.

Packaging. The *class* packaging method is the method this application uses. The application simply builds a ByteArrayOutputStream object and writes...

the `*class*` bundle to the list (see Listing One). As the application works through the `*class*` list, it is able to switch between encryption methods by examining the `*class*` file list and `*searching*` for methods with a signature matching the Container `*class*`'s `encrypt()` method.

(PROGRAM LISTING 1 NOT REPRODUCIBLE IN ASCII)

Once the array of class data is built, the application writes the data (the...different) byte array. The only requirement is that the decryption method be able to invert whatever the encryption method does.

Looking at Listing Two (`Encrypt.*java*`), we see a single `*class*` with methods. It would have been better to break it into two separate classes, but it's simpler to describe this way. The principle...

...In other words, if we call these inverses `magic1` and `magic2`, then $(X * \text{magic1}) * \text{magic2} == X$ for all possible values of X .

Listing Two

```
import *java*.util.*;
public *class* Encrypt extends Container
{
    public static int seed; //note. it's really three bytes
    public static int magic;
    public static byte scrabble(byte value)
    {
        int temp...
```

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3. ☐ 9/3,K/3

02260600 **Supplier Number: 53578785 (Use Format 7 Or 9 For FULL TEXT)**
A Java Applet Search Engine.(Technology Tutorial)

Kientzle, Tim

Dr. Dobb's Journal , 24 , 2 , 32(1)

Feb , 1999

ISSN: 1044-789X

Language: English Record Type: Fulltext; Abstract

Word Count: 2601 Line Count: 00299

...pages. Very long data items are handled similarly.

The DBBTree Classes

My Java code that reads Berkeley DB files consists of three classes. The primary `*class*` (and currently the only public `*class*`) is `DBBTree` (Listing One). You create a `DBBTree` object by giving it a filename or `File` object. It opens the file, reads the metadata, and then provides access to the database through the `*search*()` method, which accepts a byte array with the desired key and returns another byte array with the corresponding data.

Listing One

```
public class DBBTree {
    protected...for the indicated key. DBBTree handles searches by simply
    reading Page 1, creating a DBBTreePage object, then asking that object to search
    itself.
```

A `DBBTreePage` `*searches*` itself using a simple binary `*search*`. It uses the `DBBTreeNode` `*class*` to access particular nodes and compare them to the requested key. If the `DBBTreePage` is an internal page, it identifies the corresponding child page, asks the `DBBTree` object to fetch that page, then asks that page `*search*` itself. This process continues recursively until a leaf page `*searches*` itself and either returns the desired data or returns a null value to indicate failure.

Every page or node object has a reference to the...convert a "file:" into a local filename.

My solution is the messy piece of code in Listing Two that uses `Applet.getDocumentBase()` and the `*java*.net. URL *class*` to build a "file:" for the `index.db` file. I then simply try several combinations of path separator and other changes to build a...ARTICLE: Java Applets on CD-ROM

The ISO 9660 CD-ROM specification limits filenames to eight character, plus a three-character extension (8.3). However, `*Java* *class*` files always have the five-character extension ".class." While there are two ways around problem, neither is completely satisfactory.

There are a variety of...

...possibility is to take advantage of the ARCHIVE attribute of the APPLET. With this, you can instruct the browser to look for the `*Java* *class*` file within a `*ZIP*` archive. The archive can have a short 8.3 filename while the class files within the archive have longer names. Of course, this is not...
...on the CD.

In practice, I have found it best to combine these approaches. Use the ARCHIVE attribute and store the class files in a `*ZIP*` archive, but also use Joliet extensions and store the class files as regular files. With this combination, you only exclude older browsers on non-Windows...

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Donglin Liang , Mary Jean Harrold

ACM Transactions on Software Engineering and Methodology (TOSEM) July 2002
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Soumen Chakrabarti , Byron Dom , Rakesh Agrawal , Prabhakar Raghavan

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Volume 7 Issue 3

We explore how to organize large text databases hierarchically by topic to aid better searching, browsing and filtering. Many corpora, such as internet directories, digital libraries, and patent databases are manually organized into topic hierarchies, also called *taxonomies*. Similar to indices for relational data, taxonomies make search and access more efficient. However, the exponential growth in the volume of on-line textual information makes it nearly impossible to maintain such taxono ...
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Jonathan Goldstein , Per-Åke Larson

ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international

conference on Management of data May 2001
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Materialized views can provide massive improvements in query processing time, especially for aggregation queries over large tables. To realize this potential, the query optimizer must know how and when to exploit materialized views. This paper presents a fast and scalable algorithm for determining whether part or all of a query can be computed from materialized views and describes how it can be incorporated in transformation-based optimizers. The current version handles views composed of sele ...

4 Incremental view maintenance in object-oriented databases

77%



Reda Alhajj , Faruk Polat

ACM SIGMIS Database June 1998
Volume 29 Issue 3

A database management system should support views to facilitate filtering of information in order to have only necessary and required information available to users with minimal delay. Although a lot of research efforts concentrated on views within the conventional relational model, much more effort is required when object-oriented models are considered. However, supporting views is only a step forward in achieving the purpose that requires improving the performance of the system by considering ...

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Christoph r J. Thompson , Vincent Celier

Proceedings of the conference on TRI-Ada '95: Ada's role in global markets: solutions for a changing complex world November 1995
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Eric Allen , Jonathan Bannet , Robert Cartwright

ACM SIGPLAN Notices , Proceedings of the 18th ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications October 2003
Volume 38 Issue 11

This paper describes how to add first-class generic types---including mixins---to strongly-typed OO languages with nominal subtyping such as Java and C#. A generic type system is "first-class" if generic types can appear in any context where conventional types can appear. In this context, a mixin is simply a generic class that extends one of its type parameters, e.g., a class C<T> that extends T. Although mixins of this form are widely used in Cpp (via templates), they are clumsy an ...
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Mikhail Dmitriev

ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications November 2002
Volume 37 Issue 11

Keeping the code of a Java application consistent (code is consistent if all of the project classes can be recompiled together without errors) prevents late linking errors, and thus may significantly improve development turnaround time. In this paper we describe a make technology for the Java programming language, that is based on smart dependency checking, guarantees consistency of the project code, and at the same time reduces the number of source code recompilations to the

minimum. After proj ...

4 Practical extraction techniques for Java

77%



Frank Tip , Peter F. Sweeney , Chris Laffra , Aldo Eisma , David Streeter

ACM Transactions on Programming Languages and Systems (TOPLAS) November 2002

Volume 24 Issue 6

Reducing application size is important for software that is distributed via the internet, in order to keep download times manageable, and in the domain of embedded systems, where applications are often stored in (Read-Only or Flash) memory. This paper explores extraction techniques such as the removal of unreachable methods and redundant fields, inlining of method calls, and transformation of the class hierarchy for reducing application size. We implemented a number of extraction techniques in < ...

5 Sealed calls in Java packages

77%



Ayal Zaks , Vitaly Feldman , Nava Aizikowitz

ACM SIGPLAN Notices , Proceedings of the 15th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications October 2000

Volume 35 Issue 10

Determining the potential targets of virtual method invocations is essential for inter-procedural optimizations of object-oriented programs. It is generally hard to determine such targets accurately. The problem is especially difficult for dynamic languages such as Java, because additional targets of virtual calls may appear at runtime. Current mechanisms that enable inter-procedural optimizations for dynamic languages, repeatedly validate the optimizations at runtime. This paper addresses this ...

6 MOCA: a service framework for mobile computing devices

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James Beck , Alain Gefflaut , Nayeem Islam

Proceedings of the 1st ACM international workshop on Data engineering for wireless and mobile access August 1999

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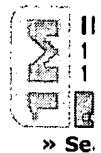
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